BTC Price

By Hera K.
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NOT an investment advice!

Before Begin

Data Science
Bootcamp Graduate

// FLATIRON SCHOOL

Bachelor
Science

ERCİYES ÜNİVERSİTESİ
1978

Hera K.

Data Scientist

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The
History

BTC History - 2009→ Future

2009

Invented by Satoshi Nakamoto

2011

The largest decrease as a percentage of the coin's value.

2021

El Salvador first country adopted BTC as legal tender

2023

Tesla sold % 75 of its BTC holdings

The Problem
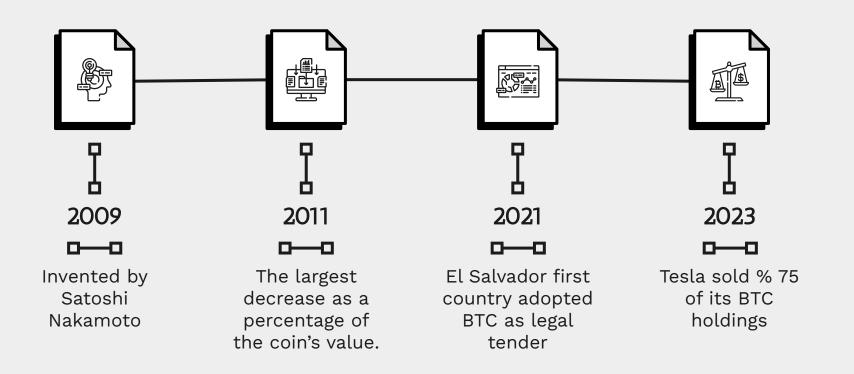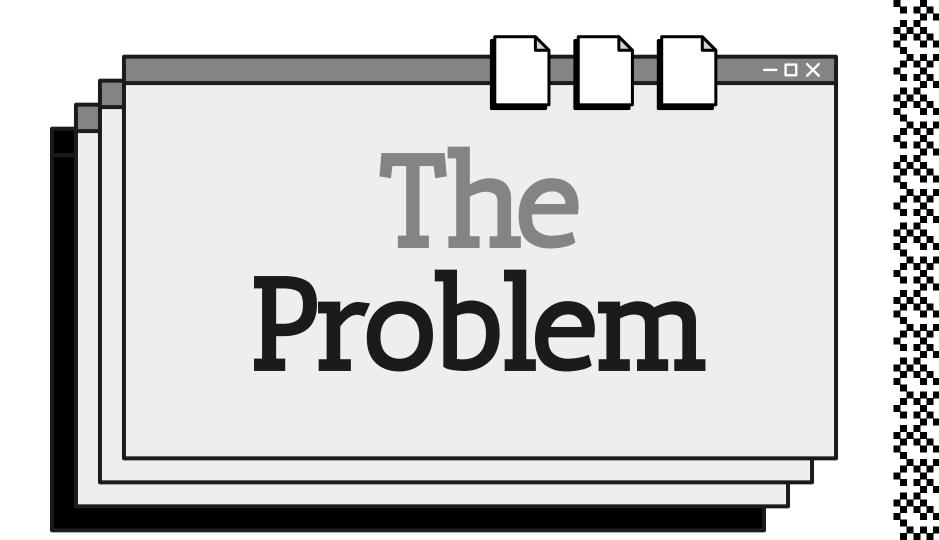
Work System BTC ?

Blockchain Technology

Immutable and decentralized system

Decentralized Network

Multiple nodes store data

Long-term Store of Value

Asset, currency, or commodity

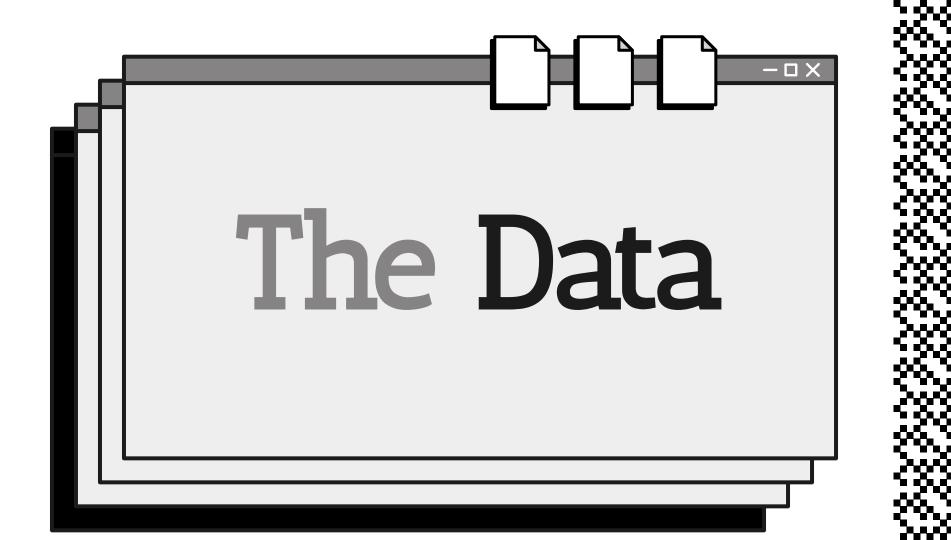# Differentiation Between Currencies

Cryptocurrency

Multiple nodes store and process data

Regular Currency

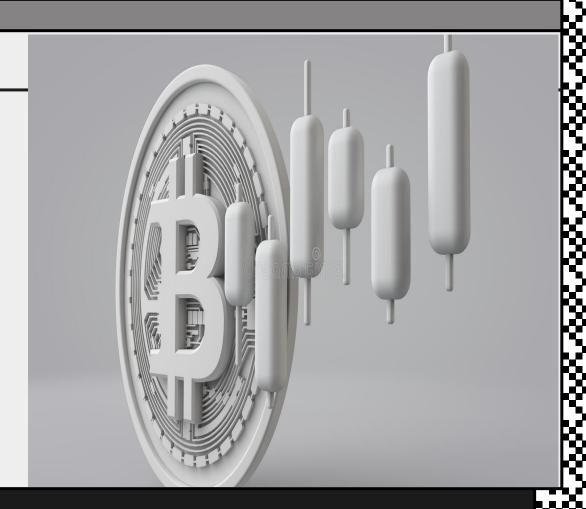Data is processed and stored by single node

The Data

Dataset Facts

Source : Yahoo Finance!

Bitcoin Historical Prices-USD
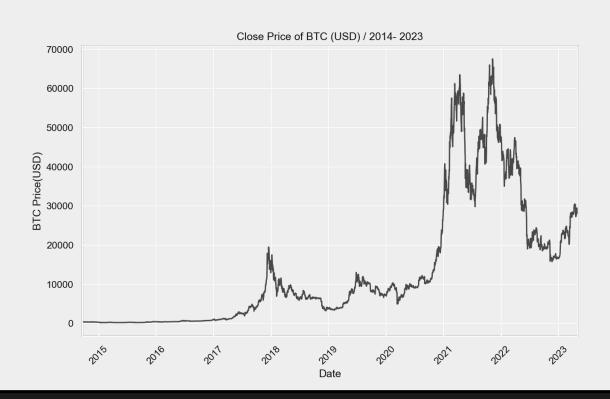Open - Close
High - Low
Volume

Timeline:
Sep, 2014 → May, 2023

$68,789.63
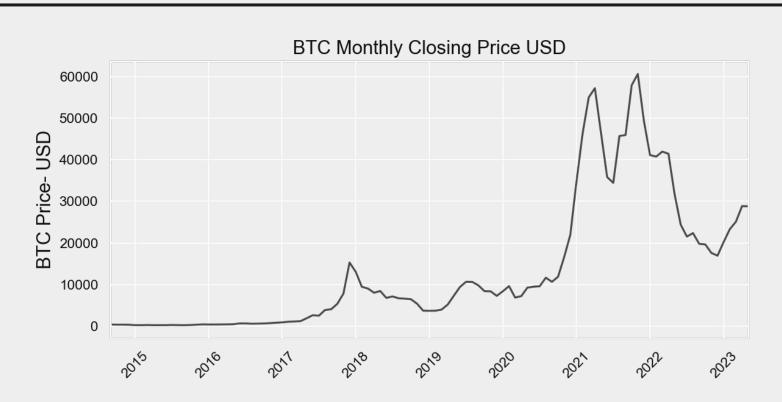
All-time highest price in 2021

Daily Close Price BTC Over Time

Close Price of BTC (USD) / 2014- 2023
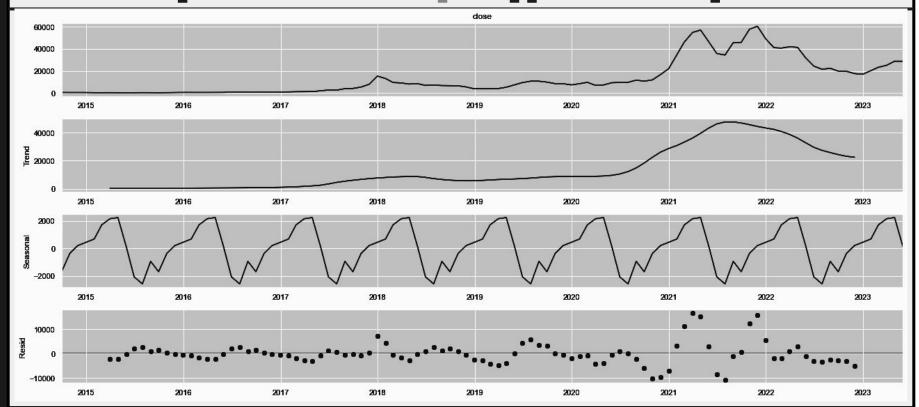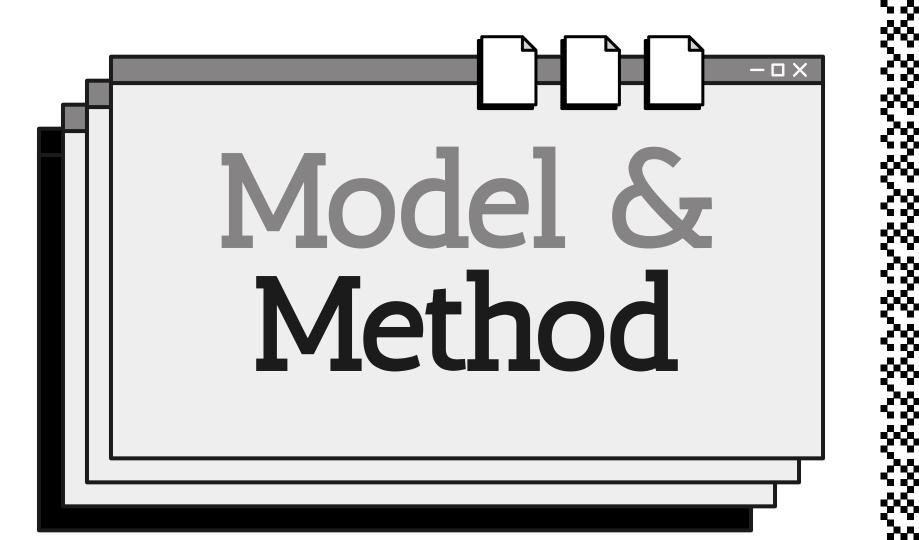
Monthly Close Price BTC Over Time

BTC Monthly Closing Price USD

Decomposition Monthly Cryptocurrency

Model & Method
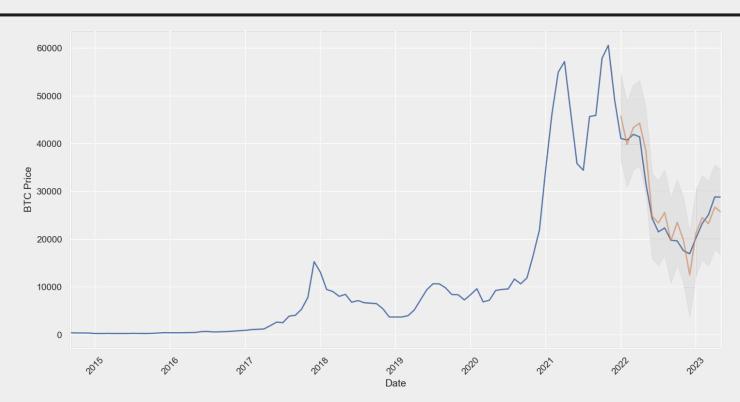
Prediction After 2022

Let's Review Some Statistics Forecast Measures

RMSE - 3368
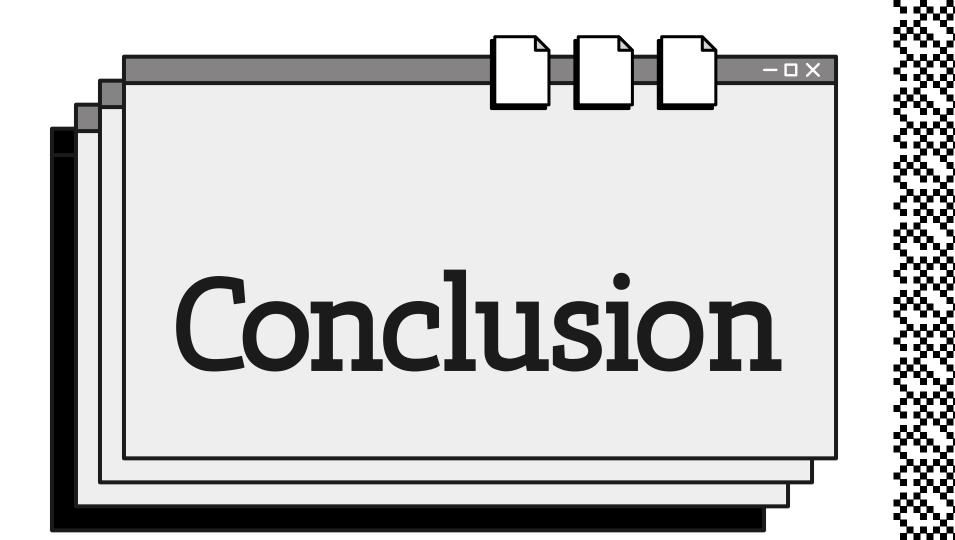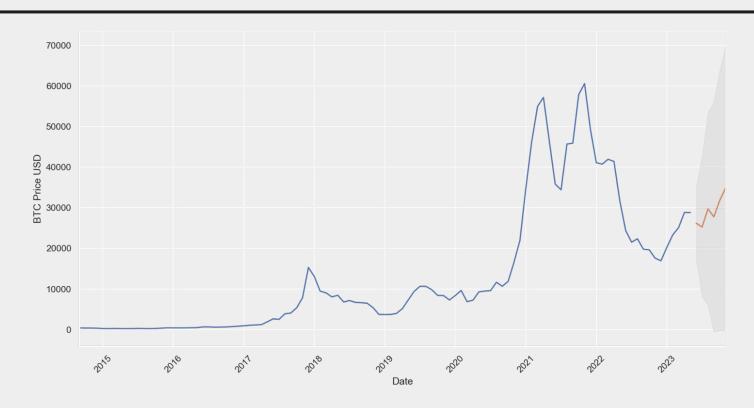
Expected Root
Mean Squared
Error

AIC - 1073

Akaike
Information
Criteria

RMSE- 3005

Test Root Mean
Squared Error
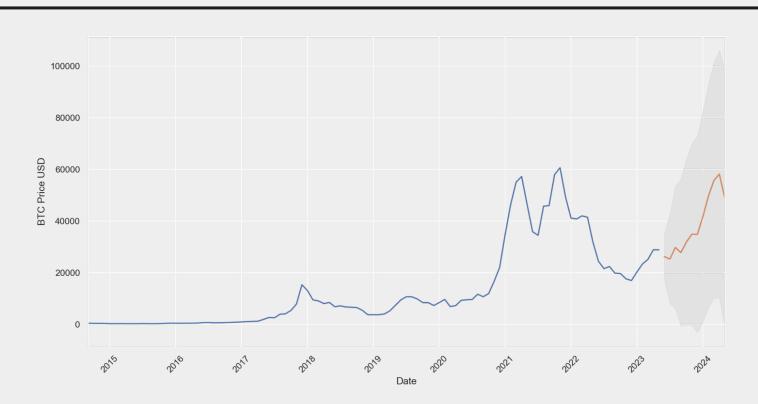
CI - 95%

Confidence
Interval

Conclusion

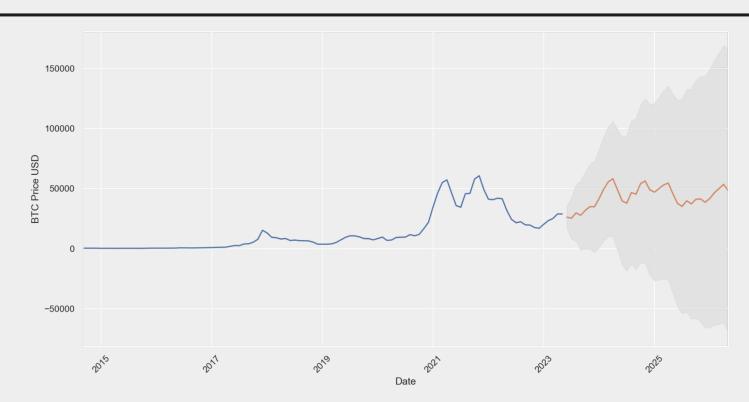# 6 Month Forecast – 2023 Prediction
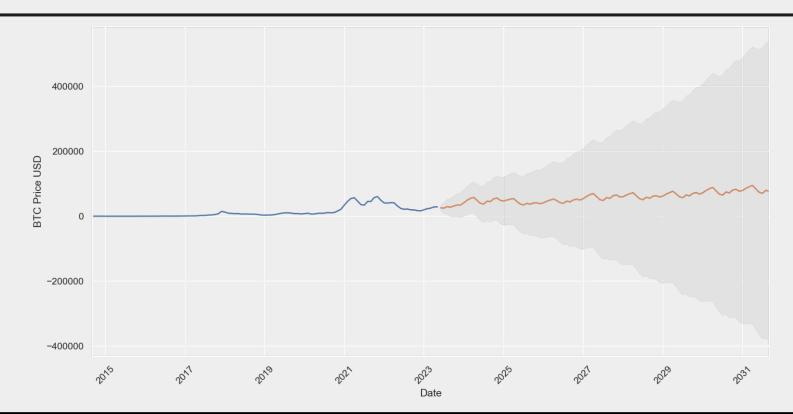
1 Year Out Forecast – 2024 Prediction

3 Year Out Forecast - 2026 Prediction

8 Year Out Forecast - 2031 Prediction
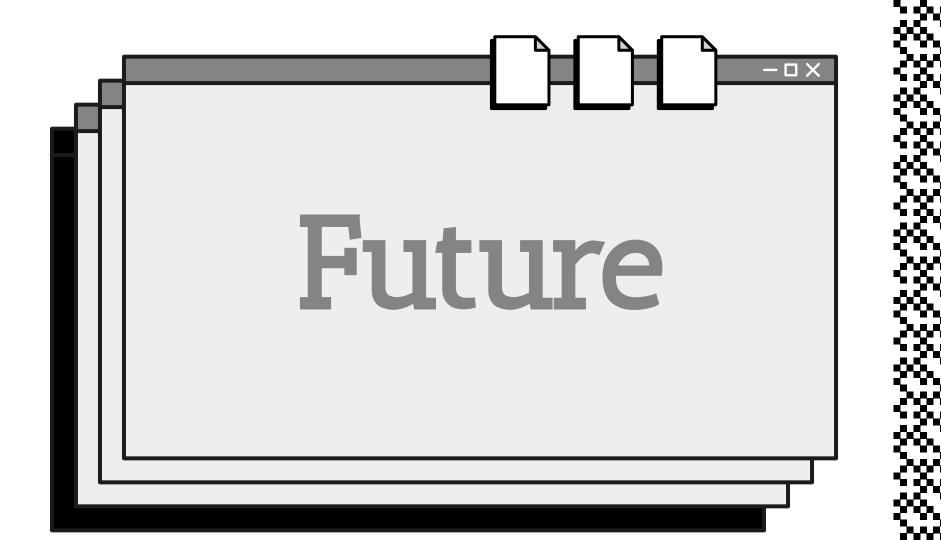
2023

$30-35K

2024

~$60K

2026

$50K +

2031

$40K +

Factors That Affect the Price of 1 Bitcoin

Supply

Demand

Cost of production

Number of competitors

Regulation

Media coverage

Thanks!

Questions | Concerns?

github.com/drykvf

linkedin.com/in/hera-k

Resources

❖ https://finance.yahoo.com/quote/BTC-USD/

❖ https://bitcoin.org/en/how-it-works

❖ https://en.wikipedia.org/wiki/History_of_bitcoin

❖ https://www.investopedia.com/tech/what-determines-value-1-bitcoin/

❖ https://www.fidelity.com/learning-center/trading-investing/crypto-vs-cash